

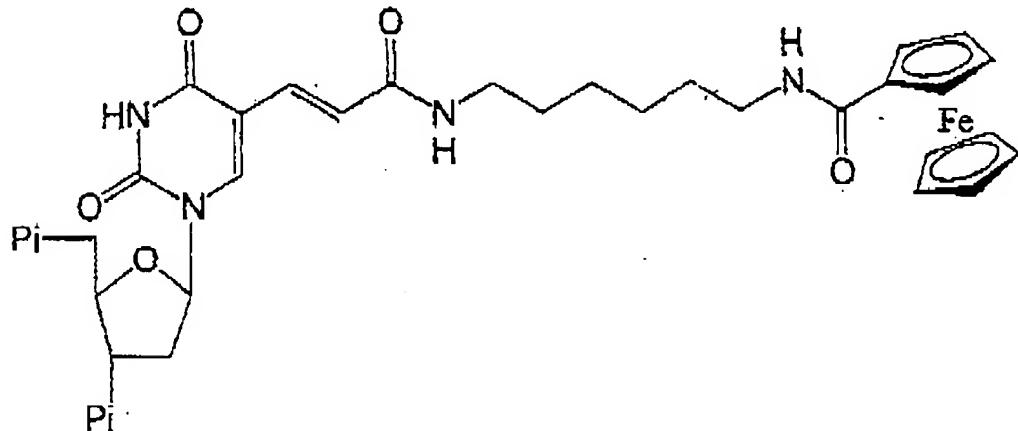
U.S. Patent Application Serial No. 10/768,180
Amendment filed April 16, 2008
Reply to OA dated November 16, 2007

AMENDMENT TO THE SPECIFICATION:

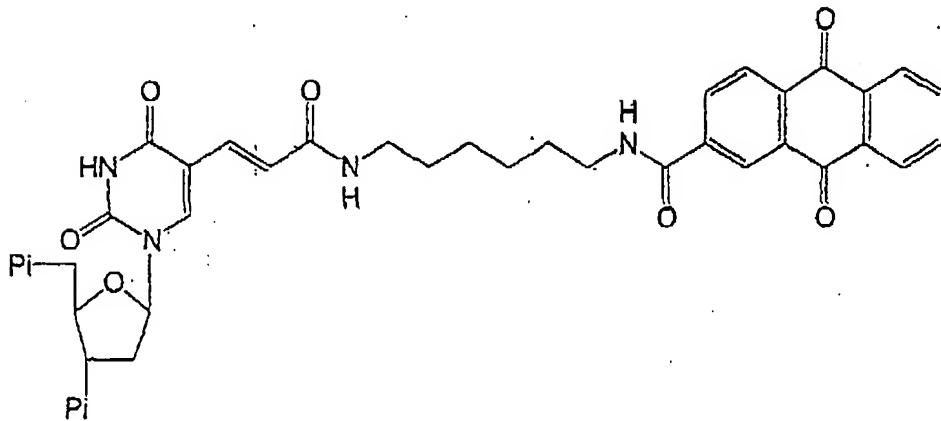
Amend the paragraph beginning at page 14, line 22, as follows:

In this bipolar transistor, the following modifying nucleic acids having different polarities; described in the above paragraph entitled "DESCRIPTION OF THE PREFERRED EMBODIMENTS", were introduced as T¹ and T² of the DNAs.

T¹ = ferroan-modified dT



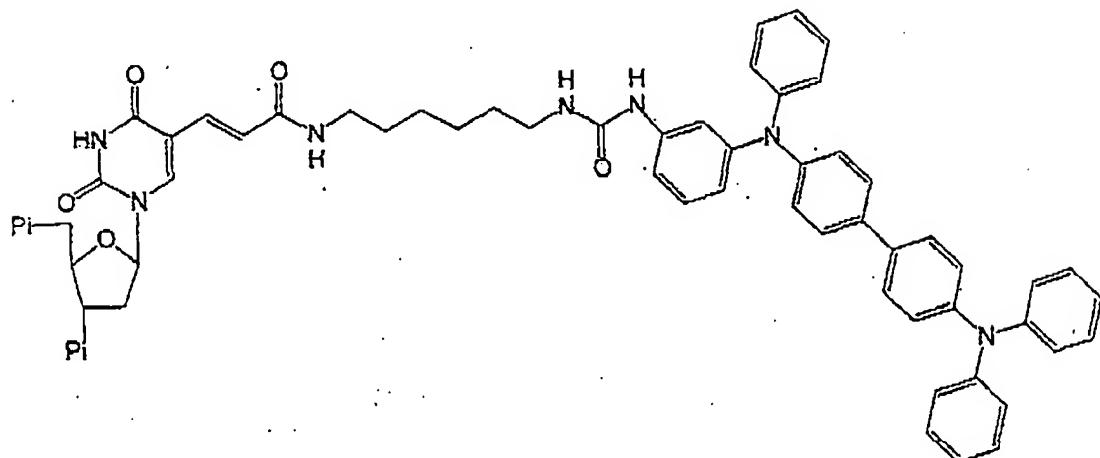
T² = anthraquinone-modified dT



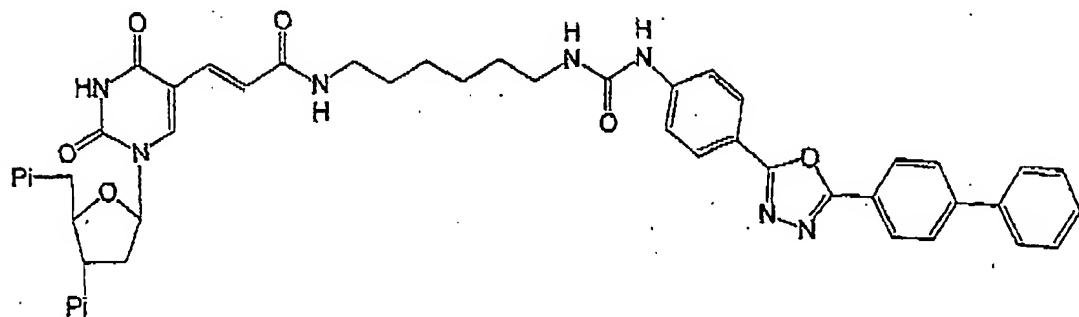
OR

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T¹ = tetraphenylbenzidine (TPB) - modified dT



T² = 2 - phenyl - 5 (4-diphenyl) -1, 3, 4-oxazole (PBD) - modified dT



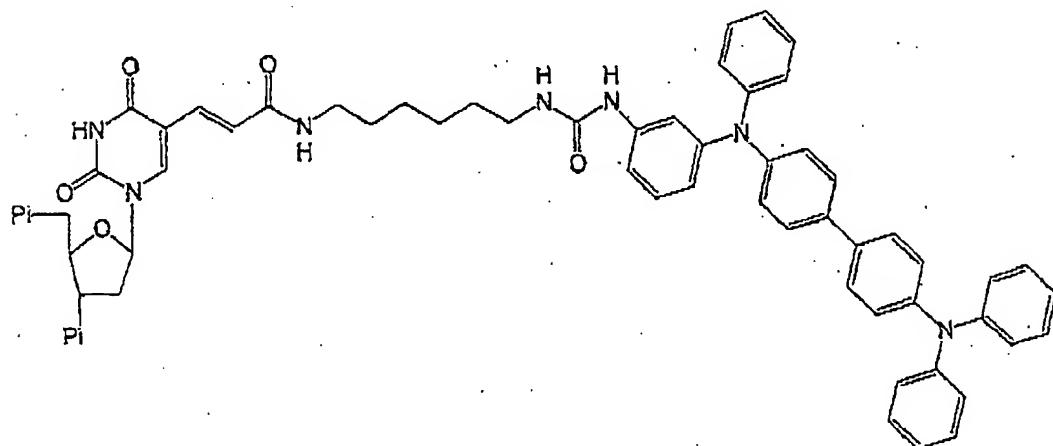
It was observed that the resulting bipolar transistor can exhibit the expected transistor effects.

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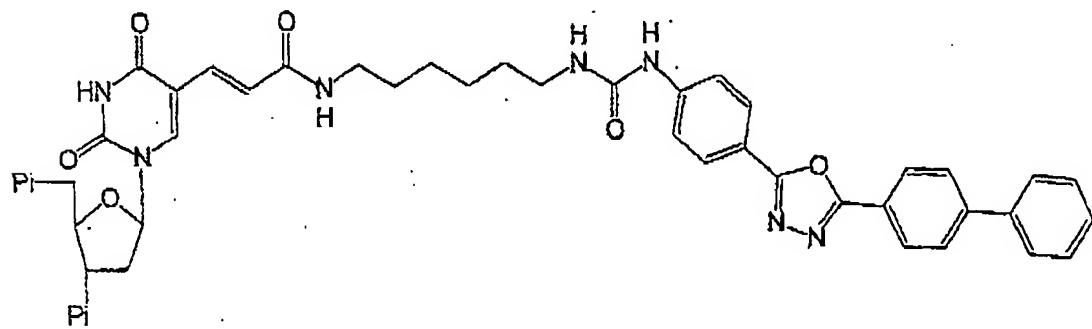
Amend the paragraph beginning at page 15, line 3, as follows:

In this photodiode, the following modifying nucleic acids having different polarities, described in the above paragraph entitled "DESCRIPTION OF THE PREFERRED EMBODIMENTS", were introduced as T¹ and T³ of the DNAs[[], and].

T¹ = tetraphenylbenzidine (TPB) - modified dT



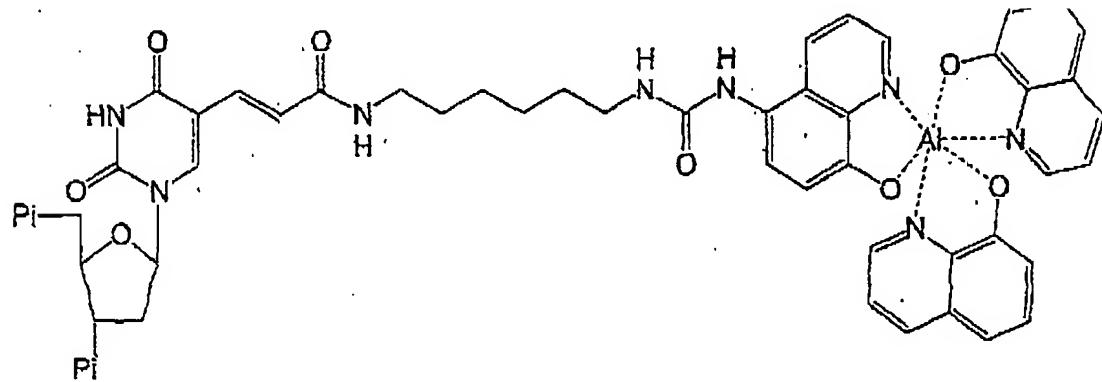
T³ = 2-phenyl - 5(4-diphenyl) -1, 3, 4 -oxazole (PBD) - modified dT



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at the same time, [[a]] the following nucleic acid modified with a functional group capable of emitting light upon application of an electromotive force was introduced as T² of the DNA.

T² = tris (8-hydroxyquinolinate (Alg)) - modified dT



It was observed that the resulting photodiode can exhibit the expected photodiode effect.